

| | L # | Hits | Search Text | DBs | Time Stamp |
|---|-----|------|-----------------------------|--------------------|---------------------|
| 1 | L1 | 2 | luciferin near4 regenerat\$ | USPAT; US-PGPUB | 2003/11/21 10:52 |

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:56:42 ON 21 NOV 2003

=> fil .bec

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |

FULL ESTIMATED COST

| | |
|------|------|
| 0.21 | 0.21 |
|------|------|

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 10:56:58 ON 21 NOV 2003
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s luciferin(5a)regenerat?

FILE 'MEDLINE'

754 LUCIFERIN

64458 REGENERAT?

L1 3 LUCIFERIN(5A) REGENERAT?

FILE 'SCISEARCH'

763 LUCIFERIN

74269 REGENERAT?

L2 4 LUCIFERIN(5A) REGENERAT?

FILE 'LIFESCI'

459 LUCIFERIN

18823 REGENERAT?

L3 3 LUCIFERIN(5A) REGENERAT?

FILE 'BIOTECHDS'

148 LUCIFERIN

13684 REGENERAT?

L4 3 LUCIFERIN(5A) REGENERAT?

FILE 'BIOSIS'

1271 LUCIFERIN

84431 REGENERAT?

L5 5 LUCIFERIN(5A) REGENERAT?

FILE 'EMBASE'

717 LUCIFERIN

48080 REGENERAT?

L6 1 LUCIFERIN(5A) REGENERAT?

FILE 'HCAPLUS'

2305 LUCIFERIN

153483 REGENERAT?

L7 16 LUCIFERIN(5A) REGENERAT?

FILE 'NTIS'

42 LUCIFERIN

7914 REGENERAT?

L8 0 LUCIFERIN(5A) REGENERAT?

FILE 'ESBIOBASE'

272 LUCIFERIN

27311 REGENERAT?

L9 3 LUCIFERIN(5A) REGENERAT?

FILE 'BIOTECHNO'

273 LUCIFERIN

14184 REGENERAT?

L10 3 LUCIFERIN(5A) REGENERAT?
 FILE 'WPIDS'
 294 LUCIFERIN
 86471 REGENERAT?
 L11 6 LUCIFERIN(5A) REGENERAT?
 TOTAL FOR ALL FILES
 L12 47 LUCIFERIN(5A) REGENERAT?

=> s l12 not 2001-2003/py
 FILE 'MEDLINE'
 1512614 2001-2003/PY
 L13 0 L1 NOT 2001-2003/PY

FILE 'SCISEARCH'
 2807371 2001-2003/PY
 L14 1 L2 NOT 2001-2003/PY

FILE 'LIFESCI'
 274423 2001-2003/PY
 L15 0 L3 NOT 2001-2003/PY

FILE 'BIOTECHDS'
 57974 2001-2003/PY
 L16 0 L4 NOT 2001-2003/PY

FILE 'BIOSIS'
 1484597 2001-2003/PY
 L17 2 L5 NOT 2001-2003/PY

FILE 'EMBASE'
 1271007 2001-2003/PY
 L18 0 L6 NOT 2001-2003/PY

FILE 'HCAPLUS'
 2877189 2001-2003/PY
 L19 6 L7 NOT 2001-2003/PY

FILE 'NTIS'
 40732 2001-2003/PY
 L20 0 L8 NOT 2001-2003/PY

FILE 'ESBIOBASE'
 803336 2001-2003/PY
 L21 1 L9 NOT 2001-2003/PY

FILE 'BIOTECHNO'
 345429 2001-2003/PY
 L22 1 L10 NOT 2001-2003/PY

FILE 'WPIDS'
 2703877 2001-2003/PY
 L23 1 L11 NOT 2001-2003/PY

TOTAL FOR ALL FILES
 L24 12 L12 NOT 2001-2003/PY

| | | |
|----------------------|------------|---------|
| => fil .becpat | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 18.77 | 18.98 |

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 10:59:12 ON 21 NOV 2003

ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

3 FILES IN THE FILE LIST

=> s l12 and wo/pc and pry<=2000 range=2001,
FILE 'BIOTECHDS'

21959 WO/PC
23425 PRY<=2000
(PRY<=2000)

L25 3 L4 AND WO/PC AND PRY<=2000

FILE 'HCAPLUS'

139385 WO/PC
376744 PRY<=2000

L26 4 L7 AND WO/PC AND PRY<=2000

FILE 'WPIDS'

298075 WO/PC
1387280 PRY<=2000
(PRY<=2000)

L27 3 L11 AND WO/PC AND PRY<=2000

TOTAL FOR ALL FILES

L28 10 L12 AND WO/PC AND PRY<=2000

=> dup rem l28

PROCESSING COMPLETED FOR L28

L29 6 DUP REM L28 (4 DUPLICATES REMOVED)

=> d tot

L29 ANSWER 1 OF 6 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI *Luciola lateralis*-originated genes encoding proteins capable of
regenerating luciferin especially from oxyluciferin,
useful for producing recombinant DNAs and transformants to give proteins
useful in assaying adenosine triphosphate;
vector-mediated gene transfer and expression in host cell and DNA
primer for use in medicine and food hygiene

AU HIROKAWA K; KUROSAWA K; KAJIYAMA N
AN 2002-11179 BIOTECHDS
PI WO 2002010384 7 Feb 2002

L29 ANSWER 2 OF 6 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
TI New *Luciola cruciata*-originated genes encoding proteins capable of
regenerating luciferin especially from oxyluciferin,
for producing recombinant DNAs and transformants;
sustaining luminescence useful for medicine and food hygiene

AU HIROKAWA K; KUROSAWA K; KAJIYAMA N
AN 2002-09656 BIOTECHDS
PI WO 2002010383 7 Feb 2002

L29 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
TI **Luciferin-regenerating** enzyme from Japanese firefly
Luciola lateralis

SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF

IN Hirokawa, Kozo; Kurosawa, Keiko; Kajiyama, Naoki
AN 2002:94167 HCAPLUS
DN 136:163292

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|--------------|
| PI | JP 2002034574 | A2 | 20020205 | JP 2000-228227 | 20000728 |
| | WO 2002010384 | A1 | 20020207 | WO 2001-JP6455 | 20010726 <-- |
| | W: US | | | | |

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, TR
EP 1306435 A1 20030502 EP 2001-954353 20010726 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

L29 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
TI **Luciferin-regenerating** enzyme from Japanese firefly

Luciola cruciata

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

IN Hirokawa, Kozo; Kurosawa, Keiko; Kajiyama, Naoki

AN 2002:94166 HCAPLUS

DN 136:147117

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|--------------|
| JP 2002034573 | A2 | 20020205 | JP 2000-228226 | 20000728 |
| WO 2002010383 | A1 | 20020207 | WO 2001-JP6454 | 20010726 <-- |

W: US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, TR

EP 1306434 A1 20030502 EP 2001-954352 20010726 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

L29 ANSWER 5 OF 6 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN

TI **Luciferin regenerating** protein and gene encoding it,
useful for **regenerating** expensive **luciferin** from
oxyluciferin and D-cysteine;
recombinant protein production in Escherichia coli

AU Kurosawa K; Kajiyama N

AN 2001-08927 BIOTECHDS

PI WO 2001025426 12 Apr 2001

L29 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

TI In vitro ATP regeneration system from polyphosphate and AMP by
polyphosphate synthase and polyphosphate:AMP phosphotransferase or
adenylate kinase

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

IN Ohtake, Hisao; Kuroda, Akio; Tanaka, Shotaro

AN 2001:545886 HCAPLUS

DN 135:119262

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|--------------|
| WO 2001053513 | A1 | 20010726 | WO 2001-JP238 | 20010117 <-- |

W: CN, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, TR

| | | | | |
|---------------|----|----------|----------------|--------------|
| JP 2001211900 | A2 | 20010807 | JP 2000-28976 | 20000207 |
| JP 2001292798 | A2 | 20011023 | JP 2000-112790 | 20000414 |
| JP 2001299390 | A2 | 20011030 | JP 2000-119798 | 20000420 |
| JP 2001269200 | A2 | 20011002 | JP 2000-362340 | 20001129 <-- |
| EP 1264894 | A1 | 20021211 | EP 2001-901364 | 20010117 <-- |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

| | | | | |
|---------------|----|----------|----------------|--------------|
| US 2003064394 | A1 | 20030403 | US 2002-188091 | 20020703 <-- |
|---------------|----|----------|----------------|--------------|

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

56.14

75.12

STN INTERNATIONAL LOGOFF AT 11:11:54 ON 21 NOV 2003